Index for Volume 84 of Plant Disease

AUTHOR AND SUBJECT INDEX. Page numbers of errata are in italic. N indicates disease note. Publication no. D-2000-1030-01O

Abawi, G. S., 562
Abdalla, M. Y., 321
Abdel Alim, F. F., 1251N
Abies spp.
—*A. fraseri,* Phytophthora root rot, metalaxyl effect, 661
—*A. hickeli, Heterobasidion annosum,* in Mexico, 1047N
Aboulama, S., 596N
Abt, J. J., 1133
Accotto, G. P., 1152N, 1156N
Acidovorax avenae
—on cantaloupe, outbreak in Georgia, 372N
—on watermelon, seed detection, 470
Acosta-Gallegos, J. A., 923N
Acremonium cucurbitacearum
—on melon, root rot and vine decline, 224
—on muskmelon: cover photo, August; virulence assessment, 907
Actinidia spp.
—*A. chinensis,* leaf spot, 371N
—*A. deliciosa,* Botrytis gray mold, in USA and New Zealand, 208
Adamou, M., 1203
Adandonon, A., 922N
Adaskaveg, J. E., 328
Aegerter, B. J., 224
Ageratum, yellow vein disease, virus association in Pakistan, 101N
Agosteo, G. E., 1153N
Agrobacterium rhizogenes, solarization for control, Oregon, 952
Aguiar, J. L., 811N
Akutsu, K., 334
Albugo candida, on radish, cover photo, February
Alegría, O. M., 1342N
Alexandre, M. A. V., 707N, 739
Alexandrov, S., 1185
Alfalfa
—anthracnose, in Turkey, 100N
—phytoplasma on, in Lithuania, 198N
Alfalfa mosaic virus
—on Macrotyloma axillare, 594N
—on *Pachysandra terminalis,* in Europe, 594N
Alfaro-Lassala, F., 1044N
Allen, R. G., 483
Alliaria officinalis, Cucumber mosaic virus, in Ohio, 1047N
Almeyda, H., 807N
Almond, M. A., 143
Alnus glutinosa, Phytophthora root and collar rot, in Hungary, 1251N
Al-Rokibah, A., 321
Alstroemeria spp.
—*A. brasiliensis, Lily mottle virus,* natural infection, 103N
—*A. caryophyllea, Ornithogalum mosaic virus,* 202N
Alt, P. J., 785
Alstroemeria caryophyllea, Ornithogalum mosaic virus, 202N
Alternaria spp.: on *Spathiphyllum,* in Argentina, 370N; on wheat, black point in Saskatchewan, 892
—*A. alternata:* on citrus, in Spain, 1044N; on cotton, stem canker, 103N
—*A. cirsinoxia,* on Canada thistle, moisture and temperature factors, 1126
—*A. citri,* on citrus, environmental factors and fungicide timing, 638
—*A. dauci,* on carrot, gibberellic acid effect, 555
—*A. solani,* on tomato, resistance, 967
—*A. tenuissima,* on *Amaranthus hybridus,* cover photo, April
Alvarez, E., 423
Amaranthus spp., *Phomopsis amaranthicola,* biocontrol agent, 1225
—*A. hybridus,* root rot, *Fusarium* spp., South Africa, 101N
Ambrosia artemisiifolia, Phyllachora ambrosiae, epidemic in Europe, 489N
Amin, I., 809N
Anacardium excelsum, Phytophthora and *Pythium* spp. on, in Panama, 706N
Anciso, J., 809N
Anderson, R. J., 1133
Anderson, T. R., 705N
Andrade, G. P., 760
Anthurium andreanum, Xanthomonas axonopodis on, in Reunion Island, 1343N
Antoniuk, L., 198N
Aphanomyces spp.
—*A. cochlioides,* on sugar beet, in Nebraska and Wyoming, 596N
—*A. euteiches,* on legumes, oospore germination, root exudate effect, 994
—*A. fragariae:* on hosta, cover photo, June; on royal fern and hosta, in South Carolina, 593N
Aphid, *Cucumber mosaic virus* vector, Solanaceous weeds to pepper, 1221
Apiosporina morbosa, on sour cherry, ascospore release, 45
Appel, D. N., 539
Apple
—disease research in France, 928
—IPM program, 1140
—Leucostoma canker, outbreak in Wisconsin, 923N
—*Phymatotrichopsis omnivora,* root colonization assessment, 539
—powdery mildew, yield and economic benefits, Virginia, 1171
—scab: dodine and fenarimol for, 863; leaf little shredding and treatment with urea, 1319
—sooty blotch, epicuticular wax and growth relation, 767
—sooty blotch and flyspeck: etiology and control, 714; watercolors, cover photo, July
—stem cankers, management with fungicides, 1031
Aprea, A., 595N
Apricot, *Phomopsis vexans,* in the Americas, 596N
Arauz, L. F., 600
Arbutus unedo, Hendersonula toruloidea on, in Europe, 487N
Arceuthobium hondurense, on *Pinus tecunumannii,* in Honduras, 372N
Arifi, A., 173
Armendariz, J., 811N
Armengol, J., 907, 1044N
Armillaria mellea
—on fern, in Italy, 592N
—growth near ferns, cover photo, May
Armoracia rusticana, Verticillium wilt, inoculum density effect, 309
Arredondo, C. R., 371N
Ascochyta rabiei, on chickpea, in Latin America, 102N
Ash yellows
—aggressiveness variation, 282
—distribution in western North America, 268
—phytoplasma; leafhopper vectors, 134; strain responses, 725
Asparagus
—postharvest disorder, in Connecticut, 831
—purple spot, fungicide management and yield, 525
Aspergillus spp., on peanut, aflatoxin and linoleic acid, 148
Aster ericoides, powdery mildew, Argentina, 1044N
Atibalentja, N., 309
Aveling, T. A. S., 922N
Avgelis, A., 1345N
Avocado, Phytophthora root rot, soil amendments, soil drainage, and resistance, 612
Ayres, A. J., 622
Azad, H. R., 973
Azalea, petal blight, in Argentina, 100N

Babadoost, M., 711, 1345N
Babin, M., 707N
Bachand, G. D., 143
Bachand, M., 143
Bachman, M. S., 694
Bailey, J. E., 459
Bailey, K. L., 1126
Bains, P. S., 372N
Baird, R. E., 785, 1156N
Baird, S. M., 785
Bakonyi, J., 1251N
Ball, J. J., 268
Balmas, V., 807N807N
Banana
—anthracnose, quantification method for infection, 128
—burrowing nematode, resistance screening method, 689
Banana streak badnavirus, in Costa Rica, 1152N
Bandyopadhyay, R., 437
Barcellos, A. L., 90
Barker, K. R., 689
Barley
—*Fusarium graminearum,* deoxynivalenol biosynthesis, 654
—Fusarium head blight, fungicides for, 1021
—genomics and disease resistance, 1160
—stem rust, stand density effect, 29
Barley stripe mosaic virus, on cereals in Tunisia, 1045N
Barley yellow dwarf virus, Illinois isolate, molecular and biological characterization, 483
Barley yellow streak mosaic virus, first report in Alaska, 595N
Barley yellow striate mosaic virus, on cereals in Tunisia, 1045N
Barnes, L. W., 201N
Barradas, M. M., 739
Barroso, P. A. V., 516
Bartolini, I., 736
Bartz, J. A., 1314
Batson, W., 1156N
Batzer, J. C., 725
Bauchan, G. R., 261
Bayaa, B., 1044N
Bazzi, C., 49
Bean common mosaic, on *Macrotyloma axillare,* 594N
Bean common mosaic necrotic virus, on bean, in Mexico, 923N
Bean pod mottle virus, defective RNA,

Index for Volume 84 of Plant Disease

AUTHOR AND SUBJECT INDEX. Page numbers of errata are in italic. N indicates disease note. Publication no. D-2000-1030-01O

Abawi, G. S., 562
Abdalla, M. Y., 321
Abdel Alim, F. F., 1251N
Abies spp.
—*A. fraseri,* Phytophthora root rot, metalaxyl effect, 661
—*A. hickeli, Heterobasidion annosum,* in Mexico, 1047N
Aboulama, S., 596N
Abt, J. J., 1133
Accotto, G. P., 1152N, 1156N
Acidovorax avenae
—on cantaloupe, outbreak in Georgia, 372N
—on watermelon, seed detection, 470
Acosta-Gallegos, J. A., 923N
Acremonium cucurbitacearum
—on melon, root rot and vine decline, 224
—on muskmelon: cover photo, August; virulence assessment, 907
Actinidia spp.
—*A. chinensis,* leaf spot, 371N
—*A. deliciosa,* Botrytis gray mold, in USA and New Zealand, 208
Adamou, M., 1203
Adandonon, A., 922N
Adaskaveg, J. E., 328
Aegerter, B. J., 224
Ageratum, yellow vein disease, virus association in Pakistan, 101N
Agosteo, G. E., 1153N
Agrobacterium rhizogenes, solarization for control, Oregon, 952
Aguiar, J. L., 811N
Akutsu, K., 334
Albugo candida, on radish, cover photo, February
Alegría, O. M., 1342N
Alexandre, M. A. V., 707N, 739
Alexandrov, S., 1185
Alfalfa
—anthracnose, in Turkey, 100N
—phytoplasma on, in Lithuania, 198N
Alfalfa mosaic virus
—on Macrotyloma axillare, 594N
—on *Pachysandra terminalis,* in Europe, 594N
Alfaro-Lassala, F., 1044N
Allen, R. G., 483
Alliaria officinalis, Cucumber mosaic virus, in Ohio, 1047N
Almeyda, H., 807N
Almond, M. A., 143
Alnus glutinosa, Phytophthora root and collar rot, in Hungary, 1251N
Al-Rokibah, A., 321
Alstroemeria spp.
—*A. brasiliensis, Lily mottle virus,* natural infection, 103N
—*A. caryophyllea, Ornithogalum mosaic virus,* 202N
Alt, P. J., 785
Alstroemeria caryophyllea, Ornithogalum mosaic virus, 202N
Alternaria spp.: on *Spathiphyllum,* in Argentina, 370N; on wheat, black point in Saskatchewan, 892
—*A. alternata:* on citrus, in Spain, 1044N; on cotton, stem canker, 103N
—*A. cirsinoxia,* on Canada thistle, moisture and temperature factors, 1126
—*A. citri,* on citrus, environmental factors and fungicide timing, 638
—*A. dauci,* on carrot, gibberellic acid effect, 555
—*A. solani,* on tomato, resistance, 967
—*A. tenuissima,* on *Amaranthus hybridus,* cover photo, April
Alvarez, E., 423
Amaranthus spp., *Phomopsis amaranthicola,* biocontrol agent, 1225
—*A. hybridus,* root rot, *Fusarium* spp., South Africa, 101N
Ambrosia artemisiifolia, Phyllachora ambrosiae, epidemic in Europe, 489N
Amin, I., 809N
Anacardium excelsum, Phytophthora and *Pythium* spp. on, in Panama, 706N
Anciso, J., 809N
Anderson, R. J., 1133
Anderson, T. R., 705N
Andrade, G. P., 760
Anthurium andreanum, Xanthomonas axonopodis on, in Reunion Island, 1343N
Antoniuk, L., 198N
Aphanomyces spp.
—*A. cochlioides,* on sugar beet, in Nebraska and Wyoming, 596N
—*A. euteiches,* on legumes, oospore germination, root exudate effect, 994
—*A. fragariae:* on hosta, cover photo, June; on royal fern and hosta, in South Carolina, 593N
Aphid, *Cucumber mosaic virus* vector, Solanaceous weeds to pepper, 1221
Apiosporina morbosa, on sour cherry, ascospore release, 45
Appel, D. N., 539
Apple
—disease research in France, 928
—IPM program, 1140
—Leucostoma canker, outbreak in Wisconsin, 923N
—*Phymatotrichopsis omnivora,* root colonization assessment, 539
—powdery mildew, yield and economic benefits, Virginia, 1171
—scab: dodine and fenarimol for, 863; leaf little shredding and treatment with urea, 1319
—sooty blotch, epicuticular wax and growth relation, 767
—sooty blotch and flyspeck: etiology and control, 714; watercolors, cover photo, July
—stem cankers, management with fungicides, 1031
Aprea, A., 595N
Apricot, *Phomopsis vexans,* in the Americas, 596N
Arauz, L. F., 600
Arbutus unedo, Hendersonula toruloidea on, in Europe, 487N
Arceuthobium hondurense, on *Pinus tecunumannii,* in Honduras, 372N
Arifi, A., 173
Armendariz, J., 811N
Armengol, J., 907, 1044N
Armillaria mellea
—on fern, in Italy, 592N
—growth near ferns, cover photo, May
Armoracia rusticana, Verticillium wilt, inoculum density effect, 309
Arredondo, C. R., 371N
Ascochyta rabiei, on chickpea, in Latin America, 102N
Ash yellows
—aggressiveness variation, 282
—distribution in western North America, 268
—phytoplasma; leafhopper vectors, 134; strain responses, 725
Asparagus
—postharvest disorder, in Connecticut, 831
—purple spot, fungicide management and yield, 525
Aspergillus spp., on peanut, aflatoxin and linoleic acid, 148
Aster ericoides, powdery mildew, Argentina, 1044N
Atibalentja, N., 309
Aveling, T. A. S., 922N
Avgelis, A., 1345N
Avocado, Phytophthora root rot, soil amendments, soil drainage, and resistance, 612
Ayres, A. J., 622
Azad, H. R., 973
Azalea, petal blight, in Argentina, 100N

Babadoost, M., 711, 1345N
Babin, M., 707N
Bachand, G. D., 143
Bachand, M., 143
Bachman, M. S., 694
Bailey, J. E., 459
Bailey, K. L., 1126
Bains, P. S., 372N
Baird, R. E., 785, 1156N
Baird, S. M., 785
Bakonyi, J., 1251N
Ball, J. J., 268
Balmas, V., 807N807N
Banana
—anthracnose, quantification method for infection, 128
—burrowing nematode, resistance screening method, 689
Banana streak badnavirus, in Costa Rica, 1152N
Bandyopadhyay, R., 437
Barcellos, A. L., 90
Barker, K. R., 689
Barley
—*Fusarium graminearum,* deoxynivalenol biosynthesis, 654
—Fusarium head blight, fungicides for, 1021
—genomics and disease resistance, 1160
—stem rust, stand density effect, 29
Barley stripe mosaic virus, on cereals in Tunisia, 1045N
Barley yellow dwarf virus, Illinois isolate, molecular and biological characterization, 483
Barley yellow streak mosaic virus, first report in Alaska, 595N
Barley yellow striate mosaic virus, on cereals in Tunisia, 1045N
Barnes, L. W., 201N
Barradas, M. M., 739
Barroso, P. A. V., 516
Bartolini, I., 736
Bartz, J. A., 1314
Batson, W., 1156N
Batzer, J. C., 725
Bauchan, G. R., 261
Bayaa, B., 1044N
Bazzi, C., 49
Bean common mosaic, on *Macrotyloma axillare,* 594N
Bean common mosaic necrotic virus, on bean, in Mexico, 923N
Bean pod mottle virus, defective RNA,

interference, 1309
Beatty, J., 203N, 372N, 808N
Beckelman, H., 1185
Becker, J. O., 1081
Becton, C. B., 669
Beet western yellows virus, on faba bean in Tunisia, 1046N
Bekal, S., 1081
Belding, R. D., 767
Belonolaimus longicaudatus, on turfgrass, population dynamics, 1081
Bem, F., 1345N
Bemisia tabaci
—geminivirus transmission, detection in India, 593N
—virus vector on sweet potato, in Argentina, 35
Benazoun, A., 490N
Bender, C. L., 1008, 1015
Benincasa hispida, Tomato leaf curl virus, from Thailand, 200N
Bennypaul, H. S., 372N
Benson, D. M., 644, 661
Berdahl, J. D., 1299
Bergdahl, D. R., 706N
Bergstrom, G. C., 749
Bernier, C. C., 544
Bertrand, P. F., 201N, 789, 1047N
Biderbost, E., 35
Biggs, A. R., 1140
Bigirimana, J., 491N
Biological control
—*Alternaria cirsinoxia* for Canada thistle, 1126
—*Candida saitoana* and 2-deoxy-D-glucose for citrus fruit decay, 249
—*Candida saitoana* and glycolchitosan in apple and citrus fruit diseases, 243
—*Colletotrichum graminicola* for barnyard grass, 55
—cucumber diseases with rhizobacteria, 1073
—myths and dogmas, research perceptions on *Trichoderma*, 377
—*Phomopsis amaranthicola* for *Amaranthus* spp., 1225
—*Pichia membranefaciens,* on nectarine fruits, 1212
—*Puccinia* sp. on weed dyer's woad, temperature effect, 753
—rhizobacteria: for cucumber diseases, 1073; for *Tomato mottle virus,* 779
—*Serratia marcescens* for cyclamen soilborne diseases, 334
—*Trichoderma* and *Rhizoctonia* for *Pythium* on *Catharanthus roseus,* 644
—*Ulocladium atrum* for *Botrytis cinerea* on cyclamen, 569
Bipolaris sorokiniana
—on wheat, drought tolerance relation, 25
—on wheat grass, resistance, 1299
Bird, G. W., 77
Black, M. C., 489N
Blade, S. F., 372N
Blake, J. H., 593N
Blankenship, S. M., 767
Boehm, M. J., 1047N
Bohár, G., 489N
Bonde, M. R., 999
Borgogno, C., 1046N
Børve, J., 1180
Bosco, D., 1152N
Botanical extracts, *Fusarium oxysporum* affected by, 300
Botryosphaeria spp., on apple, virulence of species, fungicides, 1031
Botryotinia fuckeliana on potato, in Scotland, 806N
Botrytis cinerea
—on cyclamen, *Ulocladium atrum* for control, 569
—on *Hibiscus,* in South Africa, 487N
—on kiwi: postharvest, 208; sclerotia, cover photo, March
—on pear, detection by ELISA in storage, 1099
—on strawberry: management by sanitation and fungicides, 1197; plant spacing and cultivar effect, 531; sampling frequency and fungicide efficiency, 743
—on sweet cherry, paraquat for detection, 328
Bottalico, A., 807N
Bousalem, M., 200N
Bouwen, I., 103N, 202N
Bouzar, H., 490N
Bowen, C., 1217
Bowers, J. H., 300
Brandenburg, R. L., 459
Brassica spp., leaf spot:
—*Pseudomonas syringae* cause, 1015
—*Xanthomonas campestris* cause, 1008
Briddon, R. W., 101N
Brioso, P. S. T., 429
Brlansky, R. H., 164
Broad bean stain virus, on *Macrotyloma axillare,* 594N
Broccoli, bacterial blight, in California, 370N
Brogin, R. L., 838
Brown, E. A., 1256
Brown, G. E., 243
Brown, J. K., 809N, 810N
Brown-Rytlewski, D. E., 923N, 1031
Brumfield, S. K., 595N
Bruton, B. D., 907
Bueno, M., 835
Bugiani, R., 631
Bull, C. T., 370N
Burger, Y., 496
Burns, J. R., 644
Burrell, P. D., 1342N
Bursaphelenchus xylophilus, on *Pinus thunbergii,* nematode migration, histology, 675
Bushong, P. M., 638, 1246, 1294
Byrne, J. M., 1089

Cabbage, white mold, development factors, 316
Cacciola, S. O., 492N, 592N, 1153N
Cai, Z. N., 627
Cajanus cajan, leaf rust, in South Africa, 1344N
Cambra, M. A., 807N
Camero, R., 835
Campbell, C. L., 586
Candida saitoana
—apple and citrus fruit decay control, 2-deoxy-D-glucose, 249
—biocontrol agent for apple and citrus fruit diseases, 243
Canevari, W. M., 922N
Cannabis sativa, canker, in Canada, 372N
Cantaloupe (see also Melon and Muskmelon): bacterial fruit rot, outbreak in Georgia, 372N
Capitano, B. R., 773
Cappelli, C., 806N
Capretti, P., 922N
Capsicum spp., *Tomato spotted wilt virus,* first report in Florida, 1154N
—*C. annuum:* bacterial canker, in Ohio, 810N; blight, in Ontario, 705N; *Cucumber mosaic virus,* Solanaceous weeds as sources, aphid transmission, 1221; Phytophthora blight, fungicides and recovery of *Phytophthora* from soil, 1038; *Phytophthora* spp., irrigation and surfactant effect in greenhouse, 1147; *Pythium* spp., in Florida, 1271; yellow leaf curl disease, in Thailand, 1047N
—*C. frutescens: Cucumber mosaic virus,* resistance source, 885; *Texas pepper virus,* strain in Costa Rica, 168
Carballo, S., 1345N
Cardin, L., 594N
Carey, W. A., 306
Carica × *heilbornii,* Fusarium wilt, in Ecuador, 199N
Carisse, O., 295
Carling, D. E., 492N, 785, 1156N, 1344N
Carludovica palmata, leaf yellowing syndrome, phytoplasma, Mexico, 807N
Carnegie, S. F., 806N
Carroll, R. B., 173
Carrot
—Alternaria leaf blight, gibberellic acid effect, 555
—soft rot, temperature and soil saturation effect, 665
Carya illinoiensis, leaf scorch, evidence for cause, 1282
Cassava, superelongation disease, characteristics, 423
Cassidy, B. G., 559
Castagnaro, A., 595N, 706N
Castello, J. D., 143
Castilla, N. P., 357
Castro, S., 707N
Catharanthus roseus
—damping-off, biocontrol, 644
—Phytophthora blight, soil solarization effect in Florida, 185
—*Sclerotium rolfsii,* 200N
Celtis australis, foliar disease, endemic in Sicily, 492N
Cenis, J. L., 490N
Ceratocystis fimbriata, on tangelo, cover photo, August
Cercospora arachidicola, on peanut, fungicides for in West Africa, 1203
Cervantes, L. A., 681
Chagas, C. M., 739
Chamaecyparis lawsoniana, Phytophthora lateralis, management, 4
Chandler, C. K., 531, 743, 1197
Chandra, A., 19
Chandra, G., 593N
Chapela, I., 1047N
Charlson, D. V., 725
Charudattan, R., 1225
Chatenet, M., 1342N
Cheheid, A. L., 370N
Chellemi, D. O., 1271
Chen, C. C., 506
Chen, W., 101N, 592N
Chen, Y. K., 506
Cheng, Z.-M., 1235
Cherry
—sour, black knot, ascospore release, 45
—sweet, postharvest fruit rot, cuticular fractures, 1180
Chiemsombat, P., 200N, 707N, 1047N
Chillet, M., 128
Cho, K. Y., 684
Choanephora cucurbitarum, on squash, cover photo, December
Choi, G. J., 684
Choiseul, J. W., 806N
Chokecherry, X-disease phytoplasmas on, in North Dakota, 1235
Chong, J., 580
Chong, S. K., 914
Chongo, G., 544
Christ, B. J., 967
Chung, H.-S., 55
Cicer arietinum
—ascochyta blight, in Latin America, 102N
—stem and crown rot, in Arizona, 1250N
Cintas, N. A., 370N
Cirsium arvense, Alternaria cirsinoxia for control, moisture and temperature effect, 1126
Citrus

—Alternaria brown spot: severity factors, fungicide timing, 638; Spain, 1044N
—blight, fibrous root cytology, 164
—greasy spot, control in Florida, 1294
—greening organisms, intergenic region sequence, in Asia, 15
—Phytophthora brown rot, temperature and moisture effect, 157
—scab and melanose, fungicides for, postinfection control, 1246
—variegated chlorosis, transmission through root grafts, 622
Citrus tristeza virus
—detection by immunoassay, 937
—isolate evaluation and dwarfing agents, 239
Ciuffo, M., 1152N
Clark, C. A., 1250N
Clarke, J. M., 892
Clavibacter michiganensis
—on pepper, in Ohio, 810N
—on potato, laboratory accreditation program, testing, 649
Claviceps sorghi, on sorghum, in Americas, Africa, India, and Australia, 437
Clover, G. R. G., 921N
Coca W., F., 102N
Cochliobolus sativus, on wheat, black point in Saskatchewan, 892
Cody, B. R., 316
Cohen, J., 201N, 491N, 1185
Cohen, R., 496
Colbaugh, P. F., 1151N
Colletotrichum spp.
—*C. acutatum,* on strawberry, in Argentina, 706N
—*C. dematium,* on tomato, first report in Argentina, 198N
—*C. gloeosporioides:* on Chinese rose, in Argentina, 1345N; on mango, integrated management and economics, 600; on mango fruit, cover photo, June; on St. John's-Wort, in Switzerland, 203N; on strawberry, in Argentina, 595N
—*C. graminicola,* on barnyard grass, bioherbicide, 55
—*C. lindemuthianum,* on bean, in Burundi, Central Africa, 491N
—*C. musae,* on banana, quantification of infection, 128
—*C. trifolii,* on alfalfa, resistance in collections, 261
—*C. truncatum:* on alfalfa, in Turkey, 100N; on lentil, factors affecting, 544
Collins, A. R., 1140
Colquhoun, I. J., 116
Conway, W. S., 177
Cooksey, D. A., 973
Corda, P., 807N
Cordova, I., 807N
Corn
—rust: Argentina, 921N; in Mexico, 810N
—soybean in rotation, *Pythium* populations, 94
—sweet: rust in Florida and Texas, *Rp1*-D gene, 1154N; Stewart's wilt control, seed treatment, 1104
Cornus spp.
—*C. florida,* powdery mildew, inoculum source and winter survival, 574
—*C. mas,* leaf blight, 200N
Correa-Victoria, F. J., 871
Correll, J. C., 877
Corylus avellana, clover yellow edge phytoplasma, 102N
Corynespora cassiicola, new host in Sri Lanka, 202N
Cotton
—leaf blight, culture filtrate toxicity, 838
—leaf curl, begomovirus association, in Sudan, 809N
—*Rhizoctonia solani,* in Mississippi, 1156N
—root-knot nematode, chicken litter soil amendment effect, 1275
—root-knot nematode and black root rot, early-season development, 449
—stem canker: first report, 103N; in North Carolina and Virginia, 1251N
Cotton leaf curl virus, on radish, in Pakistan, 809N
Coutinho, T. A., 139, 151
Cover photo
—*Acremonium cucurbitacearum,* on muskmelon, August
—*Albugo candida,* on radish, February
—*Amaranthus hybridus,* leaf spot, April
—*Aphelenchoides fragariae,* on hosta, June
—apple sooty blotch and flyspeck, painting, July
—*Armillaria mellea,* Japanese holly fern, May
—*Botrytis cinerea* on kiwi, March
—broccoli bacterial blight, March
—*Ceratocystis fimbriata,* on Minneola tangelo, August
—*Choanephora cucurbitarum,* on squash, December
—*Colletotrichum dematium,* on tomato, November
—*Colletotrichum gloeosporioides,* on mango, June
—date palm Bayoud-like disease, March
—*Erwinia amylovora,* on apple, September
—*Erwinia chrysanthemi,* on carrot, June
—*Fusarium graminearum,* on wheat, January
—*Lisianthus necrosis virus,* flower color breaks, May
—*Monilinia fructicola,* on peach, December
—peach, brown rot, April
—*Peronospora farinosa,* on spinach, January
—*Phytophthora cactorum,* on apple, February
—*Phytophthora cinnamomi,* on *Quercus pedunculariis,* April
—*Phytophthora lateralis,* on Port-Orford-cedar, January
—*Phytophthora* spp., on alder, November
—*Potato virus Y,* necrotic spot symptom, October
—*Puccinia xanthii,* on sunflower, August
—*Rhizoctonia solani,* on potato, September
—*Rhytisma punctatum,* on maple, tar spot, November
—*Sclerotinia sclerotiorum,* on potato, January
—tomato, fruit rot, May
—tulip breaking, potyvirus cause, October
—*Septoria acanthi,* on Bear's breeches, December
—*Ustilago maydis,* on corn, February
—white clover, phytoplasma mixture, October
—*Xanthomonas campestris,* on spinach, September
Cowpea aphid-borne mosaic virus, on peanut, in Brazil, 760
Creeping bentgrass, dollar spot, bacterial metabolites for control, 19
Crinivirus, whitefly-transmitted, particle lengths, 803
Crocus sativus, corm rot, in Italy, 806N
Cronartium spp.
—*C. quercuum,* on loblolly pine, rhizobacteria for protection, 306
—*C. ribicola:* on limber pine, in Colorado, 595N; on pine, first report in Nevada, 594N
Cryptosporiopsis sp., on *Parthenium hysterophorus,* new disease, 1151N
Cubeta, M. A., 316
Cucumber, disease control by rhizobacteria and fumigation, 1073
Cucumber mosaic virus
—on *Capsicum frutescens,* resistance source, 885
—on garlic mustard, in Ohio, 1047N
—on Solanaceous weeds, transmission to pepper, 1221
Cucumis melo
—*Acremonium cucurbitacearum* and *Monosporascus cannonballus* virulence assessment, 907
—*Tomato leaf curl virus,* from Thailand, 200N
Cucurbit
—leaf curl and crumpling, new geminivirus in California, 488N
—powdery mildew, JMS Stylet-Oil for control, 989
—viruses of, distribution in São Paulo, Brazil, 516
Cucurbit leaf curl virus, whitefly transmission, in Arizona, Texas, and Mexico, 809N
Cucurbit yellow stunting disorder virus: on cucurbit, in Portugal, 1156N; first report in North America, 101N; in Morocco, 596N
Cummings, T. F., 235, 399, 1116
Curvularia inaequalis, on zoysia grass, pyrenocine production and pathogenicity, 684
Cyclamen
—*Botrytis cinerea,* biocontrol with *Ulocladium atrum,* 569
—soilborne diseases, biocontrol with *Serratia marcescens,* 334
Cyclanthera pedata, Papaya ringspot virus, in Brazil, 1155N
Cynara scolymus, root rot, *Pythium aphanidermatum,* 811N
Cyrtomium falcatum, Armillaria mellea on, in Italy, 592N

Dactuliophora elongata, on pearl millet, in Niger and Mali, 201N
da Graça, J. V., 239
Dal Bello, G. M., 198N, 596N
Dallot, S., 200N
Dally, E. L., 429, 1061
Damicone, J. P., 1008, 1015
Damsteegt, V., 202N
Dankers, W., 1153N, 1154N
D'Arcy, C. J., 1221
Darhower, H. M., 638, 1294
da Silva, N., 490N
Dasypyrum villosum, cereal eyespot and stripe rust, resistance in populations, 40
Datnoff, L. E., 871
Datura stramonium, Tobacco vein banding mosaic virus on, in China, 1152N
Davidson, J. M., 706N
Davis, R. E., 102N, 198N, 429, 1061
Davis, R. M., 224, 371N, 555, 594N, 665, 731, 922N
Dayakar, B. V., 700
de Blandino, A. M., 1153N
De Boer, S. H., 443, 649
Debrunner, N., 203N
de Lapeyre de Bellaire, L., 128
De La Torre, R., 168
Demezas, D. H., 1008, 1015
Demirci, E., 100N
de Moraes-Fernandes, M. I. B., 90
DePauw, R. M., 892
Desbiez, C., 596N, 1152N
Detwiler, A. R., 19
DeValerio, J. T., 1225
de Wet, J., 139, 151
Dewey, F. M., 1099
Dianthus chinensis, leaf blight, *Rhizoctonia* cause, 1344N
Diaporthe spp.
—*D. citri,* on citrus, fungicides for postinfection control, 1246
Diaz-Perez, J. C., 370N, 1155N
Díaz Ricci, J. C., 595N, 706N

Dicentra sp., *Tobacco rattle virus,* new in USA, 1344N
Dickstein, E. R., 201N
Didymella spp.
—*D. bryoniae,* on watermelon, fungicides for, 254
—*D. fabae,* on faba bean, in Syria, 1044N
Dieffenbachia picta, tobamovirus, 707N
Di Feo, L., 35
Dill-Macky, R., 29, 71, 654
Dioscorea alata, Yam mild mosaic virus, in Martinique, 200N
Diploceras hypericinum, on St. John's-wort, in Oregon, 1250N
Di Primo, P., 806N
Disease diagnosis, telecommunications use, 1256
Disease management
—anthracnose on mango, 600
—electronic wetness sensors, factors during dew periods, 192
—potato late blight, fungicides in Washington and Oregon, 399
Dobinson, K F., 1241
Domier, L. L., 483
Donald, P. A., 77
Dorrance, A. E., 1303
Dothistroma septospora, on *Pinus* spp., in Vermont, 706N
Douglas-fir, Swiss needle cast, incidence in Oregon, 773
Dovas, C. I., 1345N
Du, P. V., 341
Duarte, L. M. L., 707N, 739
Duffus, J. E., 803
Duran, S., 1152N
du Toit, L. J., 901

Eastburn, D. M., 309, 1221
Eayre, C. G., 1177
Echinochloa crus-galli, Colletotrichum graminicola for control, 55
Edelstein, M., 496
Edeme, J., 594N
Eken, C., 100N
Elazegui, F. A., 341, 357
El Bakali, M. A., 806N
El-Ghaouth, A., 243, 249
Ellis, M. A., 199N, 549
Elmer, P. A. G., 208
Elmer, W. H., 831, 1231
Elsinoe fawcettii, on citrus, fungicides in postinfection control, 1246
Emery, K. M., 853
Enebak, S. A., 306
Enterobacter cloacae, on onion, in Colorado, 808N
Epimedium sp., *Tobacco rattle virus,* new in USA, 1344N
Eremothecium coryli, tomato fruit rot, cover photo, May
Errata
—vol. 83, no. 12, 1999, *920*
—vol. 84, no. 1, 2000, *340*
Érsek, T., 1251N
Erselius, L. J., 325
Erwinia spp.
—*E. amylovora:* on apple, cover photo, September; on apple, research in France, 928; on apple and pear, chemiluminescent and colorimetric detection, 49, *340;* on *Rosaceae,* outbreak in Florida and Georgia, 1153N
—*E. chrysanthemi:* on carrot, cover photo, June; on carrot, temperature and soil saturation effect, 665; on potato, monoclonal antibody-based ELISA, European strains, 443
—*E. stewartii,* on corn, international collection of germ plasm, 901
Erysiphe cichoracearum, on heath asters, in Argentina, 1044N
Eucalyptus spp., *Gloeosporidina* sp., in Australia, 510
Euphorbia pulcherrima, powdery mildew, greenhouse factors, 1089
Euryops pectinatus, powdery mildew, first report in North America, 1048N
Euschistus conspersus, on tomato, ripe fruit rot association, 594N
Eustoma spp.
—*E. grandiflorum:* stem blight, 490N; stem and leaf blight, outbreak in Florida, 491N
—*E. russellianum,* lisianthus leaf necrosis, virus cause, 1185; *Lisianthus necrosis virus,* characterization, 506
Evans, C. K., 654
Evans, T. A., 173

Faba bean necrotic yellows virus
—on faba bean in Tunisia, 1046N
—in Spain, 707N
Faghihi, J., 77
Falk, B. W., 101N
Farrar, J. J., 665, 922N
Fernandez, M. R., 892
Fernández-Pavía, S. P., 487N, 808N
Ferrandino, F. J., 513
Ferris, J. M., 77
Filippone, M. P., 706N
Fillhart, R. C., 143
Flanders, J. T., 370N, 372N
Flint, K. M., 753
Flores-Estévez, N., 923N
Focus, 3, 115, 207, 376, 495, 599, 713, 815, 927, 1051, 1159, 1255
Fonseca, G., 199N
Font, I., 489N, 1046N
Fontaine, R., 491N
Foolad, M. R., 967
Forbe, G. A., 325
Forest pathology, history and Hermann Von Schrenk, 586
Förster, H., 328
Fortnum, B. A., 289
Fouche, C. F., 922N
Fouly, H. M., 947
Fourie, D., 1155N
França, S. C., 827
Francis, L., 1155N
Frankliniella spp.
—*F. fusca,* on peanut, *Tomato spotted wilt virus* relation, 459
Frederickson, D. E., 437
Frederiksen, R. A., 437
Freeman, N. D., 901, 1104
Fry, W. E., 410, 731, 1190
Fuentes, S., 35
Fukuda, K., 675
Fumigant
—methyl bromide, for cucumber diseases, 1073
—methyl iodide, for peach replant disorder, 1177
Fungicides (general) (see also Fungicides, specific)
—apple production, IPM program, 1140
—apple stem canker, management, 1031
—asparagus purple spot, management, 525
—chili pepper root, crown, and fruit rot, 1038
—citrus brown spot, application timing, 638
—citrus greasy spot, in Florida, 1294
—citrus scab and melanose controlled by, postinfection, 1246
—Fusarium head blight of wheat and barley, 1021
—lettuce bacterial leaf spot, seed treatments, 295
—peanut foliar diseases, West Africa, 1203
—pear brown spot, management programs, 631
—*Phytophthora* spp., growth, sporulation, and cyst germination affected by, 454
—potato late blight: in central Mexico, 410; postinfection, 1116
—seed protectant, peanut Sclerotinia blight, 1217
—strawberry fruit rot: efficiency evaluation, 743; management, 1197
Fungicides (specific) (see Fungicides, general)
—azoxystrobin, grape downy mildew sensitivity, 275
—bauxite, *Phytophthora cinnamomi* on *Eucalyptus,* management, 116
—chlorothalonil, for watermelon gummy stem blight, 254
—dodine and fenarimol, apple scab, 863
—fenarimol, pear shape effect, 182
—JMS Stylet-Oil, cucumber powdery mildew, 989
—mancozeb, watermelon gummy stem blight control, 254
—metalaxyl, Phytophthora root rot on Fraser fir, 661
Fusarium spp.: on asparagus, postharvest disorder in Connecticut, 831; on hosta, container-growth, 980
—*F. graminearum:* on barley, deoxynivalenol biosynthesis, 654; on wheat, crop residues and tillage effects, 71; on wheat, histopathological spikelet changes, 794; on wheat grass, resistance, 1299; on wheat and barley, fungicides for, 1021
—*F. lateritium,* on mulberry, in Hungary, 372N
—*F. nygamai,* on rice, in Sardinia, 807N
—*F. oxysporum:* on *Amaranthus hybridus,* in South Africa, 101N; on babaco, in Ecuador, 199N; on *Hebe* sp., in Italy, 705N; on melon, population density and botanical extracts, 300; on melon, vegetative compatibility group, races, 231; on saffron, corm rot in Italy, 806N; on tomato, race 3 in Florida, 199N
—*F. proliferatum,* on date palm: pathogenicity in Saudi Arabia, 321; symptoms, cover photo, March
—*F. sambucinum,* on *Amaranthus hybridus,* in South Africa, 101N
—*F. solani:* on English walnut, in South Africa, 592N; on soybean, chloride and cultivar effect on yield, 669; on soybean, sudden death syndrome relation, 914

Gabrielova, S., 1045N
Gaeumannomyces graminis
—on St. Augustinegrass, in Mississippi, 921N
—varieties, detection using PCR and specific primers, 947
—on zoysiagrass, in Texas, 1151N
Gagnevin, L., 1343N
Galindo-Alonso, J., 808N
Gambin, O., 1343N
Gamliel, A., 496
Garbelotto, M., 1047N
García, F. F., 806N
Garcia, L. E., 459
Garcia, O., 371N
Garcia-Jimenez, J., 907, 1044N
Garibaldi, A., 705N, 1048N
Garton, R., 705N
Gavino, P. D., 731
Geary, B., 1116
Gera, A., 201N, 491N, 1185
Gerlagh, M., 569
Ghabrial, S. A., 1052
Gherardi, I., 631
Ghini, S., 49
Gilardi, G., 705N
Gilbertson, R. L., 488N

Gillaspie, A. G., Jr., 559
Giménez-Pecci, M. P., 1046N
Girard, J. C., 1342N
Girgis, S. M., 1345N
Girotti, S., 49
Gitaitis, R. D., 372N, 470, 785
Gleason, M. L., 192, 725
Glechoma hederacea, rust, first report in North America, 371N
Gloeosporidina sp., on *Eucalyptus* spp. in Australia, 510
Glomerella cingulata
—on apple, interaction with *Listeria monocytogenes,* 177
—on passion fruit, in Argentina, 706N
Gnanamanickam, S. S., 700
Goheen, D. J., 4
Gomez, A., 168
Gonzalez, M., 921N
Gonzalez, M. S., 103N, 921N, 1151N
Gooden, D., 289
Gorbet, D. W., 148
Gordon, D. T., 1133
Gordon, T. R., 224
Gottwald, T. R., 157
Gotzova, B., 1045N
Graham, J. H., 157
Grand, L. F., 489N, 661, 1251N
Grape
—downy mildew: azoxystrobin sensitivity, 275; disease warning system, 549
—grapevine leafroll-associated closterovirus, monoclonal antibodies, 858
—*ilarvirus,* new in Greece, 1345N
Grasso, S., 592N
Grau, C. R., 77, 994
Gravert, C. E., 596N
Green, S., 1126
Gremmeniella abietina, on pine, European race in Canada, 202N
Griffith, C. S., 586
Griffiths, H. M., 282, 725, 1266
Grit, G., 569
Groppo, G. A., 516
Groth, D. E., 100N
Grube, R. C., 885
Grünwald, N. J., 410
Gu, Q., 1152N
Gubler, W. D., 182
Gudmestad, N. C., 1327
Guillaumin, D., 1343N
Gullino, M. L., 705N, 1048N
Guo, Y. H., 268, 1235
Gutierrez, W. A., 1076
Guzman, P., 488N
Gymnosporangium exiguum, on juniper, in Texas, 489N

Halik, S., 706N
Hall, J. W., 649
Hamm, P. B., 399, 731
Han, C. G., 627
Hansen, E. M., 4, 773
Hanson, J., 594N
Harbaugh, B. K., 490N, 491N
Hardy, G. E. St. J., 116
Harman, G. E., 377
Harmon, P., 492N
Harrell, M. O., 268
Harrington, M. A., 1241
Harrington, T. C., 83
Harrison, K. J., 202N
Harrison, N. A., 807N
Hartman, G. L., 100N, 487N
Hartman, J. R., 928
Hartung, J. S., 622
Hausbeck, M. K., 525, 1089
Haynes, J. L., 199N
He, C. X., 622
Hebe sp., Fusarium wilt, in Italy and Europe, 705N
Helianthus annuus
—petal blight, 1153N
—tospovirus on, first report in India, 1343N
Hendersonula toruloidea, on strawberry tree, in Europe, 487N
Henry, N. M., 1342N
Herbaria, A., 371N
Herbaria, K., 371N
Hernández, A., 394
Herre, E. A., 706N
Hess, D. E, 201N
Heterobasidion annosum, on *Abies hickeli,* in Mexico, 1047N
Heterodera glycines, on soybean:
—chloride and cultivar effect on yield, 669
—reproduction in north central USA, 77
Heuchera sp., *Tobacco rattle virus,* new in USA, 1344N
Hevea brasiliensis, viroid and tapping panel dryness syndrome, 1155N
Hewings, A. D., 483
Heyderich-Alger, K. I., 1282
Hibi, T., 334
Hibiscus spp.
—*H. rosa-sinensis,* anthracnose, in Argentina, 1345N
—*H. sabdariffa,* Botrytis blight, in South Africa, 487N
Hildebrand, K., 914
Hill, G. T., 134
Hinz, P. N., 192
Hiraishi, C., 1109
Hirayae, K., 334
History, forest pathology and Hermann Von Schrenk, 586
Hobbs, H. A., 1221
Hoffman, J. T., 594N
Hoffmann, G. M., 816
Höfte, M., 491N
Hogmire, H. W., 1140
Hokanson, S. C., 488N
Holbrook, C. C., 148
Holcomb, G. E., 200N, 492N, 1152N, 1154N, 1344N
Holmes, G. J., 923N, 973, 1256
Holtz, B. A., 417
Holz, G., 231
Honeydew (see Cantaloupe, Melon, and Muskmelon)
Hong, C. X., 417
Hong, S. S., 1152N
Hopkins, D. L., 198N
Hop latent virus, in hop gardens, spread mechanisms in Australia, 513
Hop mosaic virus, epidemic in hop gardens, spread mechanisms, Australia, 513
Hosta spp.
—foliar nematodes, in South Carolina, 593N
—Fusarium root and crown rot, container-growth, 980
Houghton, W. C., 1154N
Hsu, H. T., 506
Huang, S., 341
Huang, X., 1152N
Hudyncia, J., 316
Hughes, G., 549
Hughes, M. E., 1334
Hunter, J. E., 148
Hurley, J. E., 202N
Hussain, M., 101N, 102N, 809N
Hypericum perforatum
—anthracnose, in Switzerland, 203N
—leaf blight and stem dieback, first report in Oregon, 1250N

Ibáñez, A. M., 638, 1294
Ichihara, Y., 675
Idris, A. M., 809N, 810N
Ieki, H., 15
Ikegami, M., 200N, 707N, 1047N
Iles, J. K., 725
Impatiens hawkeri, tobamovirus, 707N
Impatiens necrotic spot virus, in Czech Republic, 1045N
Instructions to authors, 106
Integrated pest management
—apple production, 1140
—wheat diseases, regional monitoring, 816
Ippolito, A., 243
Iris yellow spot virus, on lisianthus, new disease, 1185
Irvine, R. B., 892
Isakeit, T., 201N, 809N
Isatis tinctoria, rust for biocontrol, 753
Itersonilia perplexans, on sunflower, petal blight, 1153N
Ivey, M. L. L., 810N
Ivors, K. L., 952
Iwanami, T., 15

Jackson, K. E., 1217
Jacobi, W. R., 268, 595N
Jahn, M. K., 885
Janisiewicz, W. J., 177
Janse, J. D., 443
Jardine, D. J., 77
Jayasinghe, C. K., 202N
Jeffers, S. N., 593N, 980
Jeuffrault, E., 1343N
Jia, L., 101N
Johnson, D. A., 235, 399, 1116
Johnson, D. W., 595N
Johnson, K. B., 102N
Jomantiene, R., 102N, 198N, 1061
Jones, J. B., 201N
Jones, J. P., 100N
Jones, R. K., 71, 1021
Jones, S. S., 40
Jordá, C., 489N
Juarez, M., 489N, 1046N
Juglans regia, stem canker, South Africa, 592N
Jules, E. S., 4
Juniperus ashei, Gymnosporangium exiguum, in Texas, 489N

Kabbabeh, S., 1044N
Kaiser, W. J., 102N, 488N
Kalvelyte, A., 1061
Kanaskie, A., 773
Kane, R. T., 1151N
Kannwischer-Mitchell, M. E., 1271
Kao, J., 101N
Kaplan, D. T., 689
Kapooria, R. G., 921N
Karadimos, D. A., 593N
Karaoglanidis, G. S, 593N
Karunanayake, E. H., 202N
Katan, J., 496
Kataoka, N., 334
Katis, N. I., 1345N
Keinath, A. P., 254
Kendig, S. R., 895
Kenerley, C. M., 539
Khan, A., 309
Khan, S. H., 101N, 102N
Kim, D. H., 811N, 1147
Kim, H.-J., 684
Kim, H. T., 684
Kim, J.-C., 684
Kim, K. W., 1152N
Kim, S. H., 173
Kim, S. K., 1152N
Kim, S.-O., 55
Kindhart, J. D., 1221
Kirkpatrick, T. L., 449
Kiss, L., 489N

Kitajima, E. W., 516
Kittipakorn, K., 200N, 707N, 1047N
Kiwi, dieback, 371N
Klink, H., 816
Kloepper, J. W., 779, 1073
Klonari, K., 593N
Knauft, D. A., 148
Knox, R. E., 892
Koenig, R., 739
Koenning, S. R., 1251N
Köhl, J., 569
Koike, S. T., 103N, 370N, 705N, 1048N, 1342N
Köller, W., 863
Komagata, T., 334
Kositratana, W., 60
Koulakiotu, E. K., 103N
Kriel, W. M., 924N
Kritzman, A., 491N, 1185
Krüger, K., 810N
Krupinsky, J. M., 1299
Kucharek, T. A., 871
Kumar, K. A., 201N
Kumar, P. S., 1343N
Kumari, S. G., 1045N, 1046N
Kuniyuki, H., 516
Kurowski, C. J., 810N
Kvarnheden, A., 843
Kyriakopoulou, P. E., 1345N

Lacasa, A., 489N, 490N
Lackney, V. K., 885
Laflamme, G., 202N
Laguna, I. G., 1046N
Laidou, I. A., 103N
Lakhdar, R., 173
Lalancette, N., 549, 941
Lampel, M., 1185
Lamprecht, S. C., 231
Landini, S., 49
Langenhoven, P., 487N
Langston, D. B., Jr., 370N, 372N, 489N
La Porta, N., 922N
Larran, S., 706N
Lasiodiplodia theobromae, on *Parthenium hysterophorus,* in India, 1343N
Lasso, E., 706N
Latin, R., 492N
Lau, Y. F., 192
Launaea spp., geminivirus on, whitefly transmission, detection in India, 593N
Lazar, M. D., 25
Lázaro, A., 489N
Leafhopper, ash yellows vector, in New York, 134
Leblanc, E., 177
Lecoq, H., 596N, 1152N
Lee, F. N., 403, 877
Lee, T. Y., 731
Lee, Y.-H., 55
Legard, D. E., 531, 743, 1197
Leggett, G. W., 513
Lehrer, A. T., 1085
Leitz, R. A., 487N
Lens culinaris, anthracnose, factors affecting, 544
Lenzi, R., 1152N
Leonard, K. J., 580, 1334
Leptodontidium elatius, on apple, sooty blotch cause, 767
Lesemann, D.-E., 103N
Lesnaw, J. A., 1052
Letters, wheat Karnal bunt, zero-tolerance quarantine, 711
Lettuce
—bacterial leaf spot, seed treatments and cultivars, 295
—bacterial spot, in Turkey, 490N
Lettuce mosaic virus, pathotype in Brazil, 490N
Leucostoma cincta, on apple, in Wisconsin, 923N
Leverentz, B., 177
Levy, L., 202N
Levy, M., 60
Lewis, S. A., 593N
Li, A., 100N
Li, D. W., 627
Li, W. B., 622
Lily mottle virus, on *Alstroemeria brasiliensis,* 103N
Lin, G. Y., 967
Lin, X., 341
Lin, Y., 937
Lindbeck, A. G. C., 164
Line, R. F., 40
Lipps, P. E., 77
Lisa, V., 1046N
Lisianthus necrosis virus
—characterization, 506
—flower color breaks, cover photo, May
Listeria monocytogenes, on apple, survival and growth, 177
Liu, H-Y., 803
Liu, Y., 627
Lizárraga, C., 736
Llorente, I., 631
Loaiza-Figueroa, F., 885
Locke, J. C., 300
Lockhart, B. E. L., 1152N, 1344N
Lolium perenne, gray leaf spot:
—in Illinois, 1151N
—in Indiana, 492N
Long, D. H., 403
Long, D. L., 1334
Lopes, S. A., 827
Lopez, S. E., 370N, 794
Lord, W. G., 1319
Lotrakul, P., 168
Louie, R., 1133
Louro, D., 1156N
Luis-Arteaga, M., 807N
Luo, Y., 914
Lupinus spp., phytoplasma on, in Lithuania, 198N
—*L. albus, Phytophthora erythroseptica,* new host, 488N
—*L. havardii,* powdery mildew, in New Mexico, 487N

Maas, J. L., 102N, 488N
Maatheron, M. E., 1038
MacGuidwin, A. E., 77
MacHardy, W. E., 1319
Mackey, B., 1177
Macrophomina phaseolina, on soybean, irrigation and soil water stress, 895
Macrotyloma axillare, Alfalfa mosaic, Bean common mosaic, and *Broad bean stain viruses* on, 594N
Madden, L. V., 199N, 549, 961
Magnaporthe grisea, on rice:
—development in Arkansas, 403
—population biology in India, 700
—silicon and resistance effect on yield, 871
Maize necrotic streak virus, new in USA, 1133
Maize rayado fino virus, on maize, in Argentina, 1046N
Maize streak virus, agroinoculation efficiency, 1096
Maize stripe tenuivirus, on spruce, detection, 143
Makkouk, K. M., 1045N, 1046N
Malaguti, S., 49
Malik, K. A., 102N, 809N
Mango, anthracnose, integrated management and economics, 600
Mansoor, S., 101N, 102N, 809N
Mantle, P. G., 437
Marcello, A., 807N
Marin, D. H., 689
Markham, P. G., 101N, 809N
Martin, D. P., 1096
Martin, F. G., 743
Martín, M. P., 806N
Martin, R. R., 488N
Martin, S. B., 289
Martínez-Culebras, P., 1046N
Marveson, R. M., 596N
Masiunas, J. B., 1221
Matheron, M. E., 148, 1250N
Mathew, J., 1155N
Mathew, N. M., 1155N
Mathews, C., 1344N
Mathiasen, R., 203N, 372N, 808N
Mathron, M. E., 454
Mathur, S., 1155N
Matsuo, K., 1109
Matthiola incana, downy mildew, in California, 103N
Maxwell, D. P., 1045N, 1342N
Mayberry, K., 488N
Mayton, H., 1190
McCoppin, N. K., 1221
McDonald, J. G., 1121
McFadden-Smith, W., 45
McGourty, G. T., 182
McGovern, R. J., 185, 490N, 491N, 1153N
McGrath, M. T., 989
McLaughlin, W. A., 1342N
McManus, P. S., 923N, 1031
McSorley, R., 185
McWilliams, M. G., 773
Medicago spp.
—anthracnose, resistance sources and collection, 261
—downy mildew, resistance, 521
Mehta, Y. R., 838
Mekwatanakarn, P., 60
Melakeberhan, H., 77
Melampodium divaricatum, powdery mildew and *Tomato spotted wilt virus,* first report, 1152N
Melgar, J., 203N, 372N
Meloidogyne spp.
—*M. hapla:* on potato, quadrat size and time of year for sampling, 961; suppression mechanism, Sudan grass green manure effect, 562
—*M. incognita,* on cotton: chicken litter soil amendment effect, 1275; early-season effect, 449
Melon (see also Cantaloupe and Muskmelon)
—Fusarium wilt, vegetative compatibility group and race, 231
—Monosporascus wilt, management in Israel, 496
—root rot and vine decline, fungi, 224
Melouk, H. A., 1217
Menge, J. A., 612, 617
Mentha spp.,Verticillium wilt, resistance, hybrids and clones, 235
Merighi, M., 49
Mertelik, J., 1045N
Mertely, J. C., 531, 1197
Mesocriconema xenoplax, on peach, bahia grass and wheat preplanting effect, 789
Messenger, B. J., 612, 617
Meyer, M. P., 525
Meyer, U. M., 1099
Michailides, T. J., 208, 417, 853
Michel, V. V., 203N
Michener, P. M., 1104
Microsphaera spp.
—*M. berberidis,* on *Nandina domestica,* in North America, 705N
—*M. pulchra,* on dogwood, inoculum source and winter survival, 574

Miller, J. S., 731
Miller, M. E., 201N, 809N
Miller, M. L., 952
Miller, S. A., 810N
Milne, R. G., 1046N
Minuto, A., 705N, 1048N
Miranda, V. S., 622
Mirocha, C. J., 654
Mitchell, D. J., 1271
Miyao, G. M., 594N
Mizubuti, E. S. G., 1190
Mmbaga, M. T., 200N, 574
Model, *Venturia pirina,* ascospore maturity, pear scab, 681
Mohammed, C., 510
Mokra, V., 1045N
Molina, M. L., 423
Momol, E. A., 1153N
Momol, M. T., 1153N, 1154N
Mónaco, M. E., 595N
Monci, F., 490N
Monilinia fructicola
—on peach: cover photo, April; cover photo, December; latent infection, 853
—on stone fruits, paraquat for detection, 328
Monis, J., 858
Monosporascus cannonballus, on melon:
—management in Israel, 496
—root rot and vine decline, 224
—virulence assessment, 907
Montano, H. G., 102N, 429
Montesinos, E., 631
Montón, R. C., 806N
Moon, J. S., 483
Moore, L. W., 952
Moravec, B. C., 1190
Morehart, A. L., 173
Moret, B. A., 806N
Moretti, A., 321
Moriones, E., 490N, 835
Morus alba, trunk blight and canker, in Hungary, 372N
Mourichon, X., 128
Moury, B., 594N
Mukhtar, S., 809N
Mukoko, O., 1155N
Muldoon, A. E., 1190
Mulè, G., 321
Mullinix, B. G., 785
Munkvold, G. P., 596N
Murphy, J. F., 779, 885
Murray, J. S., 143
Murray, T. D., 40
Mushtaq, N., 102N
Muskmelon (see also Cantaloupe and Melon):
Tomato leaf curl virus, from Thailand, 707N
Mycosphaerella spp.
—*M. citri,* on citrus, control in Florida, 1294
—*M. dearnessii,* on *Pinus mugo,* in Italy, 922N
Mycotoxin, deoxynivalenol, *Fusarium graminearum* on barley, biosynthesis, 654
Myers, O., 914

Nadal, P. M., 806N
Nagy, Z., 1251N
Nair, M. G., 19
Najar, A., 1045N, 1046N
Nakagawa, A., 1109
Nakhla, M. K., 1045N, 1342N
Nameth, S. T., 1047N
Nandina domestica, powdery mildew, in North America, 705N
Narayanan, N. N., 700
Natti, T. A., 810N
Natwick, E., 488N
Navas-Castillo, J., 490N, 835
Ndunguru, J., 921N
Nectarine, Rhizopus rot, postharvest biological control, 1212
Neill, G. B., 268
Nerium oleander, leaf scorch, in Florida, 198N
Newcombe, G., 595N
Niblack, T. L., 77
Nickell, C. D., 487N, 694
Niederholzer, F. J. A., 681
Nielsen, C. J., 1147
Nita, M., 199N
Nitrogen, rice blast affected by, 403
Noe, J. P., 1275
Noel, G. R., 77
Nolasco, G., 1156N
Nome, C. F., 1046N
Nome, S. F., 35
Northover, J., 45
Ntahimpera, N., 967
Nuget, A., 1342N
Nunez, J. J., 555, 665
Nyczepir, A. P., 789

Oak, decline, in Colima, Mexico, 394
O'Brien, J. G., 394
Ochoa, J., 199N
Ocimum basilicum, stem rot, in California, 1342N
Ogawa, T., 1109
Ohr, H. D., 1177
Oidium spp.
—on *Melampodium divaricatum,* first report, 1152N
—on poinsettia, greenhouse factors, 1089
Okshima, K., 1109
Oleo europea, Phytophthora palmivora, in Italy, 1153N
Oliveira, E., 1046N
Olsen, M. W., 809N
Olson, S. M., 1154N
Omer, M., 1241
O'Neill, N. R., 261
Onion
—bulb decay, in Colorado, 808N
—downy mildew, in Georgia, 489N
—leaf blight, first report: in Colorado, 922N; in USA, 201N
—leaf blight and bulb decay, in Colorado, 808N
Ontivero, M., 706N
Opperman, C. H., 689
Ornithogalum mosaic virus, on *Alstroemeria caryophyllea,* 202N
Oropeza, C., 807N
Orozco, C., 394
Ortega, A., 489N
Ortíz, V., 707N
Osmunda regalis, foliar nematodes, in South Carolina, 593N
Otto, K., 808N, 922N
Ouimet, A., 295
Ovulariopsis sp., on lupin, 487N

Pachysandra terminalis, Alfalfa mosaic virus, in Europe, 594N
Pane, A., 592N, 1153N
Panicum virgatum, smut, outbreak in Iowa, 596N
Pantoea spp., on sudangrass, new leaf blotch disease, 973
—*P. ananatis,* on onion, in Colorado, 808N
—*P. stewartii,* on sweet corn, seed treatment, 1104
Papaya ringspot virus, on *Cyclanthera pedata,* in Brazil, 1155N
Pappu, H. R., 201N, 370N, 760, 847, 1047N, 1154N, 1155N
Pappu, S. S., 370N, 760
Park, E. W., 1152N
Parks, C., 203N, 808N
Parra, D., 103N
Parthenium hysterophorus
—*Cryptosporiopsis* sp., new, 1151N
—*Lasiodiplodia theobromae* on, in India, 1343N
Pasberg-Gauhl, C., 1152N
Passiflora edulis
—anthracnose, in Argentina, 706N
—collar rot and wilt, in Venezuela, 103N
Pataky, J. K., 810N, 901, 1104, 1154N
Pate, M. C., 1154N
Patte, C. P., 592N
Paulin, J.-P., 928
Pavan, M. A., 490N, 516
Payne, T. S., 203N
Payton, M. E., 1217
Pažoutová, S., 437
Peach
—canker, economic loss and yield estimates, 941
—*Monilinia fructicola,* latent fruit infection, 853
—*Plum pox virus,* first report in USA, 202N
—replant disorder, methyl iodide for, 1177
—ring nematode, bahia grass and wheat preplanting effect, 789
Peanut
—*Aspergillus* colonization and linoleic acid, 148
—*Cowpea aphid-borne mosaic virus,* in Brazil, 760
—foliar diseases, fungicide applications in West Africa, 1203
—*Sclerotinia minor,* seed transmission and treatment, 1217
—*Tomato spotted wilt virus* and thrips on, in North Carolina, 459
Peanut stripe virus, Peanut mottle virus compared to, testing method in seed lots, 559
Pear
—brown spot, management programs, disease warning system, 631
—fenarimol effect on fruit shape, 182
—scab, ascospore maturity model, components, 681
—stem end rot, detection in storage, 1099
Pedersen, D. K., 1151N
Pedersen, W. L., 487N
Peever, T. L., 638, 1294
Pelargonium zonate spot virus, on tomato, in Spain, 807N
Peltaster fructicola, on apple, sooty blotch cause, 767
Penicillium expansum, on apple, interaction with *Listeria monocytogenes,* 177
Pennisetum glaucum, Dactuliophora leaf spot, in Niger and Mali, 201N
Pepino mosaic virus, on tomato, in Netherlands, 103N
Pepper yellow leaf curl virus, on pepper in Thailand, 1047N
Peronospora spp.
—*P. destructor,* on onion, in Georgia, 489N
—*P. lamii,* on *Salvia* spp., 1154N
—*P. parasitica,* on stock, in California, 103N
—*P. trifoliorum,* in annual *Medicago* spp., resistance, 521
Pestalotiopsis spp.
—*P. guepini,* on azalea, in Argentina, 100N
—*P. populi-nigrae,* on poplar, first report in North America, 595N
Peters, R. D., 994
Peterschmitt, M., 596N
Peterson, G. L., 999
Peterson, P. D., 586
Pethybridge, S. J., 491N, 513
Petunia vein banding virus, characterization, 739
Petunia vein clearing virus, in Israel, 201N
Pezani, E. F., 707N
Pfister, S. E., 706N

Phaeocryptopus gaeumannii, on Douglas-fir, in Oregon, 773
Phaff, H. J., 594N
Phaseolus vulgaris
—anthracnose, in Burundi, Central Africa, 491N
—bacterial brown spot, in Zimbabwe, 1155N
Phialophora gregata, on soybean, resistant germ plasm from China, 694
Philion, V., 295
Phillips, J. G., 999
Phoenix dactylifera, Fusarium proliferatum, pathogenicity in Saudi Arabia, 321
Phoma exigua, on cotton, in North Carolina and Virginia, 1251N
Phomopsis sp., on lisianthus, outbreak in Florida, 491N
—*P. amaranthicola,* on *Amaranthus* spp., biocontrol, 1225
—*P. amygdali,* on peach, economic loss and yield, 941
—*P. obscurans,* on strawberry, fruit rot in Ohio, 199N
—*P. vexans,* on apricot, in the Americas, 596N
Phyllachora ambrosiae, on ragweed, epidemic in Europe, 489N
Phymatotrichopsis omnivora, on apple, root colonization assessment, 539
Physalis isocarpa, Tomato spotted wilt virus, in Georgia, 1155N
Phytophthora spp.: fungicide effects, growth and sporulation, 454; on pepper, irrigation and surfactant effect in greenhouse, 1147; root and collar rot of alder, cover photo, November
—*P. cactorum,* on apple, cover photo, February
—*P. cambivora,* on alder, in Hungary, 1251N
—*P. capsici:* on chili pepper, recovery from soil and as fungicides, 1038; on pepper, Ontario, 705N; on pumpkin, in Illinois, 1345N
—*P. cinnamomi:* on avocado, soil amendments, soil drainage, and resistance, 612; on *Eucalyptus* spp., management during mining, 116; Fraser fir, metalaxyl effect, 661; on oak, mortality in Mexico, 394; on *Quercus peduncularis,* phloem canker, cover photo, April; solarization for control, Oregon, 952; sporangia and zoospores, gypsum effect, 617
—*P. cryptogea,* on sugar beet, in Greece, 593N
—*P. erythroseptica:* on lupin, 488N; on potato, factors, 1327
—*P. heveae,* on tropical tree seedlings, in Panama, 706N
—*P. infestans:* in Morocco, genetic structure, 173; on potato, fungicide management in Washington and Oregon, 399; on potato, management in central Mexico, 410; postinfection and fungicides, 1116; sexual reproduction in USA, implications and lineage, 731; single oospore recombinant progeny, survival and pathogenicity, 1190; on tomato, population stability in Ecuador, 325
—*P. lateralis,* on Port-Orford-cedar: cover photo, January; management, 4
—*P. nicotianae:* on periwinkle, soil solarization effect in Florida, 185; on pumpkin, in North Carolina, 923N
—*P. palmivora:* on citrus, temperature and moisture effect, 157; on olive, in Italy, 1153N
—*P. parasitica,* on passion fruit, collar rot and wilt, in Venezuela, 103N
—*P. sojae,* on soybean: races in Illinois, 487N; resistance in plant introductions, 1303
Phytoplasma
—ash yellows: aggressiveness, 282, distribution in western North America, 268; on 11 cultivars, 725
—chayote witches'-broom, in Brazil, 429
—on clover, mixed infections in Lithuania, 1061
—clover yellow edge, on hazelnut, 102N
—leaf yellowing syndrome, on *Carludovica palmata,* Mexico, 807N
—in soybean, alfalfa, and *Lupinus,* in Lithuania, 198N
—on *Ulmus* spp., cultivar response, 1266
—X-disease strains, on chokecherry, in North Dakota, 1235
Phytotoxins
—pyrenocine, *Curvularia inaequalis* on zoysia grass, 684
—*Stemphylium solani* on cotton, 838
Piccinni, G., 25, 1067
Picea mariana, tenuiviruses on, characterization, 143
Pichia membranefaciens, nectarine fruit rot, controlled by, postharvest control, 1212
Pierson, P., 77
Pietersen, G., 810N
Pimentel, J. P., 429
Pinkerton, J. N., 952
Pinner, M. S., 101N
Pinnow, D. L., 559
Pinus spp.: blister rust, in Nevada, 594N; dieback, isolate characterization in South Africa, Mexico, and Indonesia, 151; Dothistroma needle blight, in Vermont, 706N; mistletoe, 203N; *Psittacanthus angustifolius,* in Mexico and Guatemala, 808N
—*P. flexilis,* white pine blister rust, in Colorado, 595N
—*P. mugo,* needle-cast, in Italy, 922N
—*P. patula, Sphaeropsis sapinea,* genetic diversity in South Africa and Sumatra, 139
—*P. sylvestris,* Scleroderris canker, in Canada, 202N
—*P. taeda,* fusiform rust, systemic protection induced, rhizobacteria, 306
—*P. tecunumannii,* dwarf mistletoe, in Honduras, 372N
—*P. thunbergii,* pinewood nematode, symptoms and histology, migration, 675
Pio-Ribeiro, G., 760
Pittman, R. N., 559
Pittosporum tobira, Tomato spotted wilt virus host, new, 491N
Pivonia, S., 496
Plasmopara viticola, on grape
—azoxystrobin sensitivity, 275
—disease warning system, 549
Ploetz, R. C., 199N
Ploper, L. D., 706N
Plum pox virus, on *Prunus persica,* first report in USA, 202N
Podolsky, R., 525
Podosphaera spp.
—*P. fusca,* on *Euryops pectinatus,* first report in North America, 1048N
—*P. leucotricha,* on apple, yield and economic benefits, management in Virginia, 1171
—*P. xanthii,* on cucurbit, JMS Stylet-Oil for control, 989
Polk, D. F., 941
Polston, J. E., 592N, 779
Pond, D., 612, 617
Popham, T. W., 907
Poplar, *Pestalotiopsis populi-nigrae,* first report in North America, 595N
Porchas, M., 454, 1038, 1250N
Postharvest pathology
—apple and citrus fruit decay: biocontrol, 243; biocontrol, *Candida* and 2-deoxy-D-glucose, 249
—asparagus, *Fusarium* spp., in Connecticut, 831
—*Botrytis cinerea* on pear stems, detection, 1099
—tomatoes, decay and hydrocooling, 1314
Postman, J. D., 102N
Potato (see also *Solanum* spp.)
—bacterial ring rot, laboratory accreditation program, testing, 649
—black leg, European strains, monoclonal antibody-based ELISA and PCR, 443
—early dying, vegetative compatibility groups, molecular characterization, 1241
—late blight: fungicides and postinfection activity, 1116; fungicides for management in Washington and Oregon, 399; management in Toluca Valley, Mexico, 410
—*Phytophthora infestans,* population in Morocco, 173
—pink rot, factors, 1327
—*Rhizoctonia solani* AG-3, in Spain, 806N
—soft rot, in Scotland, 806N
—Verticillium wilt and lesion nematodes, quadrat size and time of year for sampling, 961
—white mold, cover photo, January
Potato tuber necrotic ringspot, *Potato virus Y* association, in Japan, 1109
Potato virus T, on ulluco, oca, and mashua, in Peru, 736
Potato virus Y
—necrotic spot on tuber, cover photo, October
—on tobacco, in Georgia, 201N
Potter, J. L., 1045N
Powell, C. A., 937
Powell, J. F., 19
Pratylenchus penetrans
—on potato, quadrat size and time of year for sampling, 961
—solarization for control, Oregon, 952
Pretorius, Z. A., 203N, 924N
Prisi, L., 928
Provvidenti, R., 885
Prunus spp., mummies, mycoflora in California, 417
—*P. avium,* postharvest fruit decay, paraquat for detection, 328
Prunus necrotic ringspot virus, in hop gardens, spread mechanisms in Australia, 513
Pseudocercosporella herpotrichoides, on *Dasypyrum villosum,* resistance, 40
Pseudomonas SPP/
—*P. aureofaciens,* metabolites from, dollar spot of bentgrass, management, 19
—*P. syringae:* on broccoli, blight, cover photo, March; on broccoli, in California, 370N; on *Cornus mas,* leaf blight, 200N; on crucifers, leaf spot in Oklahoma, 1015; on dry bean, in Zimbabwe, 1155N; on tomato, race 1 in California, 371N
Psittacanthus angustifolius
—on pine, in Mexico and Guatemala, 808N
—on *Pinus* spp., 203N
Puccinia sp., biocontrol of weed dyer's woad, 753
—*P. coronata,* on oat, nomenclature system in North America, 580
—*P. glechomatis,* on ground-ivy, in North America, 371N
—*P. graminis:* on barley stand density efffect, 29; on wheat, gene *Sr31* detection, 203N
—*P. sorghi:* on corn, in Mexico, 810N; on corn, resistance genes in Argentina, 921N; on sweet corn, *Rp1*-D gene in Florida and Texas, 1154N
—*P. striiformis,* on *Dasypyrum villosum,* resistance, 40
—*P. triticina,* on wheat: resistance in cultivar Toropi, Brazil, 90; virulence in USA from 1996 to 1998, 1334
—*P. xanthii,* on sunflower: cover photo,

August; in South Africa, 924N
Pumpkin
—fruit rot, in North Carolina, 923N
—Phytophthora foliar blight and fruit rot, in Illinois, 1345N
Putnam, M. L., 1250N
Pyricularia grisea
—on *Lolium perenne,* in Illinois, 1151N
—on rice: host selection effect, Arkansas, 877; major resistance genes, in Thailand, 60
—on ryegrass, in Indiana, 492N
Pythium spp.: on corn and soybean, rotation fields in populations, 94; on pepper, in Florida, 1271; on tropical tree seedlings, in Panama, 706N
—*P. aphanidermatum,* on artichoke, root rot, 811N
—*P. myriotylum,* on tobacco, water temperature effect, 289
—*P. ultimum:* on *Catharanthus roseus,* biocontrol with *Trichoderma* and *Rhizoctonia,* 644; on cowpea, in South Africa, 922N

Qing, F., 1212
Querci, M., 736

Raccah, B., 1185
Radish, *Cotton leaf curl virus,* in Pakistan, 809N
Radopholus similis, on banana, screening method, 689
Raj, S. K., 593N
Ramachandran, P., 1155N
Ramallo, C. J., 706N
Rane, K., 492N
Rangaswamy, V., 1015
Ranunculus white mottle virus, on anemone, 1046N
Rasmussen, S. L., 1147
Rauber, A.-L., 203N
Raupach, G. S., 1073
Rayside, P. A., 1271
Rebolledo, O., 394
Reddy, A. P. K., 465
Reddy, D. V. R., 760
Reddy, M. K., 1343N
Redinbaugh, M. G., 1133
Rehner, S. A., 706N
Resende, R., 1046N
Resistance
—alfalfa to downy mildew, 521
—*Capsicum frutescens* to *Cucumber mosaic virus,* new source, 885
—*Chamaecyparis lawsoniana* to *Phytophthora lateralis,* 4
—*Dasypyrum villosum* to eyespot and stripe rust, 40
—*Medicago sativa* to anthracnose, collection sources, 261
—rice to blast, nitrogen effect, 403
—soybean: to brown stem rot, germ plasm from China, 694; to *Phytophthora sojae,* plant introductions, 1303
—*Thinopyrum intermedium* to *Bipolaris sorokiniana* and *Fusarium graminearum,* 1299
—tomato to early blight, 967
—wheat to leaf rust, cultivar Toropi, Brazil, 90
Reviewers, acknowledgment, 104
Reynard, D. A., 268
Rezende, J. A. M., 516, 1155N
Rhizobacteria
—cucumber disease biocontrol, 1073
—loblolly pine and fusiform rust protection, 306
Rhizoctonia spp., biocontrol for vinca, 644
—*R. solani:* AG-4 and AG-7, isolate characterization and differentiation, 785; on cotton, AG-7 group in Mississippi, 1156N; on *Dianthus,* first report, 1344N; on *Epipremnum aureum,* first report on potato, AG-3, in Spain, 806N; on potato, cover photo, September; on verbena, web blight, 492N
Rhizopycnis vagum, on melon, root rot and vine decline, 224
Rhoads, D. D., 877
Rhynchosia gold mosaic virus, first report in Honduras, 1045N
Rhytisma punctatum, on big leaf maple, cover photo, November
Ribeiro, D. M., 827
Ribichich, K. F., 794
Rice
—bacterial leaf blight, origin in India, 465
—blast: in Arkansas, resistance, 403; major resistance genes, Thailand, 60; mating type alleles and cross-compatibility, in India, 700; population diversity in Arkansas, host selection effect, 877; scald, and yield, silicon effect, 871
—false smut, outbreak in Louisiana, 100N
—Fusarium foot rot, Sardinia, 807N
—pest constraints in tropical Asia: injury profiles, 341; yield loss quantification, 357
Rich, J. R., 1154N
Rideout, J., 289
Riedel, R. M., 77, 961
Riegel, C., 1275
Riley, D. G., 370N, 847
Rivas, E. B., 707N, 739
Rivera, M. C., 100N, 1345N
Robbins, R. T., 669
Roberto, P. G., 827
Roberts, P. D., 1294
Robertson, N. L., 595N
Roca de Doyle, M. M., 1045N
Rodríguez-Alvarado, G., 808N
Rodríguez Codazzi, A. M., 370N
Rodríguez-Tello, A., 488N
Roelfs, A. P., 29, 90
Rogers, S. O., 143
Roggero, P., 1152N
Rojas, A., 843
Rojas, M. R., 488N
Romero, J., 707N
Ronco, L., 1044N
Rorbaugh, P. A., 1147
Rosaceae, woody ornamentals, fireblight outbreak in Florida and Georgia, 1153N
Rosales, C., 103N
Rosa multiflora, rosette, spread in Maryland, 1344N
Ross, W. J., 877
Rosskopf, E. N., 1225, 1271
Rosso, P., 773
Rothrock, C. S., 449
Rott, P., 1342N
Roumagnac, P., 1343N
Rowe, R. C., 961. 1241
Roye, M. E., 1342N
Rubio, L., 101N
Rubio-Covarrubias, O. A., 410
Ruhl, G., 492N, 1256
Rundell, P. A., 937
Rupe, J. C., 669, 895
Rush, C. M., 25, 1067
Rush, M. C., 100N
Russin, J. S., 914
Rybicki, E. P., 1096

Sabbe, W. E., 669
Saenz, G. S., 705N, 1048N
Saftner, R. A., 177
Sahin, F., 490N
Sai Gopal, D. V. R., 1343N
Sako, K., 1109
Sako, N., 1109
Salas, B., 1327
Salazar, L. F., 35, 736
Salazar, S. M., 595N
Saldarriaga, S. A., 1342N
Sales, R., 1044N
Salmeron, J. J., 580
Salvia spp., downy mildew, first report, 1154N
Samretwanich, K., 200N, 707N, 1047N
Samretwanich, K., 707N
Sams, C. E., 177
Sanderlin, R. S., 1282
Sanders, F. H., Jr., 372N
Sandrini, A., 49
Sandrock, R. W., 731
Santa Cruz, M., 736
Santana, M., 706N
Santos, M. J., 827
Santos, P., 555
Sargent, S. A., 1314
Savary, S., 341, 357
Saxena, K. B., 1344N
Scaphoideus spp., ash yellows vector, in New York, 134
Scheck, H. J., 705N
Schenck, S., 1085
Scherm, H., 853
Schmitthenner, A. F., 1303
Scholler, M., 371N
Schreuder, W., 231
Schubert, T. S., 491N
Schuster, D. J., 779
Schwartz, H. F., 808N, 922N
Schwarz, A., 203N
Sclerotinia spp.
—*S. homoeocarpa,* on creeping bentgrass, management with bacterial metabolites, 19
—*S. minor:* on garbanzo, first report in USA, 1250N; on peanut, seed treatments, 1217
—*S. sclerotiorum:* apothecium production, factors, 1287; on basil, in California, 1342N; on cabbage, ascospore number relation, 316; on garbanzo, first report in Arizona, 1250N; on hemp, in Canada, 372N; on tobacco, greenhouse factors, 1076
Sclerotium rolfsii
—on *Eustoma grandiflorum,* in Florida, 490N
—on Jerusalem cherry, in Europe, 1048N
—on periwinkle, 200N
—on soybean, chloride and cultivar effect on yield, 669
Scott, H. D., 895
Scruggs, M., 1156N
Sears, W., 45
Sechium edule, witches'-broom, phytoplasma in Brazil, 429
Secor, G. A., 1327
Sedegui, M., 173
Seebold, K. W., 871
Seijo, T. E., 491N, 1153N
Sekse, L., 1180
Sellers, P. R., 77
Seo, Y.-S., 488N
Septoria acanthi, on Bear's breeches, cover photo, December
Serratia marcescens, biocontrol for cyclamen soilborne diseases, 334
Sesnie, S., 808N
Sethuraj, M. R., 1155N
Shah, D. A., 749
Shahjahan, A. K. M., 100N
Shang, H., 994
Shaw, B. D., 1089
Sheng, H., 200N
Shew, H. D., 316, 1076
Shikata, E., 1109
Shiping, T., 1212
Shishkoff, N., 989, 1048N
Siewnath, S., 592N

Sikora, E. J., 779
Sikron, N., 201N
Silva, W. P. K., 202N
Silva-Rosales, L., 923N
Sim, J., 168, 1250N
Sims, J. J., 1177
Sinclair, W. A., 134, 282, 725, 1266
Sindermann, A. B., 1344N
Singh, B. P., 593N
Singh, H. M., 341
Singh, R. P., 203N
Singh, S. P., 1343N
Singh, U., 443
Sinisterra, X., 592N
Sisterna, M., 596N
Sklavounos, A. P., 1345N
Smart, C. D., 731, 1190
Smilanick, J. L., 243, 249
Smith, H., 139
Smith, J. P., 594N
Snyder, E. B., 810N
Snyder, G. H., 871
Soilborne wheat mosaic virus, in Africa, 921N
Soil solarization
—Phytophthora blight on periwinkle, in Florida, 185
—soilborne pathogen control in Oregon, 952
Solanum spp. (see also Potato): Verticillium wilt, in Mexico, 808N
—*S. melongena,* Verticillium wilt: in Korea, 1152N; plastic mulch and nitrogen effect, 1231
—*S. pseudocapsicum, Sclerotium rolfsii,* in Europe, 1048N
Someya, N., 334
Sonti, R. V., 465
Sorghum, ergot, variability in Americas, Africa, India, and Australia, 437
Sorghum sudanense, leaf blotch, new disease by *Pantoea* spp., 973
Sorrells, M. E., 749
Soustrade, I., 1343N
Soybean
—brown stem rot, resistant germ plasm from China, 694
—charcoal rot, irrigation and soil water stress effect, 895
—corn rotation, *Pythium* populations, 94
—cyst nematode, reproduction in north central USA, 77
—Phytophthora root rot, races in Illinois, 487N
—*Phytophthora sojae,* resistance sources in introductions, 1303
—phytoplasma on, in Lithuania, 198N
—root rot, *Stachybotrys chartarum* cause, 100N
—sudden death, cyst nematode, and southern blight, chloride and cultivar effect, 669
—sudden death syndrome, root colonization by *Fusarium solani,* 914
—vascular discoloration, fungi association, north central USA, 83
Spathiphyllum sp., Alternaria leaf spot, in Argentina, 370N
Sphaceloma manihoticola, on cassava, characterization, 423
Sphaeropsis sapinea, on pine
—diversity in South Africa and Sumatra, 139
—isolate characterization in South Africa, Mexico, and Indonesia, 151
Spiegel, L., 268
Spinach, downy mildew, cover photo, January
Spotts, R. A., 182, 681, 1099
Sreerama Kumar, P., 1151N
Srivastava, R. K., 341
St. Augustinegrass, take-all, in Mississippi, 921N
Stachybotrys chartarum, on soybean, root rot cause, 100N
Stack, R. W., 1327
Stagonospora nodorum, on wheat, seed infection, 749
Stall, W. M., 1225
Stangarlin, O., 490N
Stanghellini, M. E., 811N, 1147
Staniulis, J. B., 198N, 1061
Stanley, J., 101N
Steimel, J., 83
Stemphylium spp.
—*S. solani,* on cotton, culture filtrate toxicity, 838
—*S. vesicarium:* on asparagus, fungicide management and yield, 525; on pear, management programs warning system, 631
Stensvand, A., 1180
Stevia rebaudiana, Verticillium wilt, in North America, 922N
Stienstra, W. C., 77
Stijger, C. C. M. M., 103N
Stone, J. K., 773
Stover, E. W., 1294
Strawberry
—anthracnose, in Argentina, 595N, 706N
—Botrytis fruit rot: management by sanitation and fungicides, 1197; plant spacing and cultivar effect, 531; sampling frequency in fungicides, 743
—Phomopsis fruit rot, in Ohio, 199N
—*Tobacco streak virus,* in eastern USA, 488N
Strömvik, M. V., 1309
Stuteville, D. L., 521
Suarez, A., 103N
Subandiyah, S., 15
Subbaiah, K. V., 1343N
Sudarshana, M. R., 488N
Sugar beet
—Aphanomyces root rot, in Nebraska and Wyoming, 596N
—pathogen detection and differentiation, methods, 475
—pathogen-infested soil, water use efficiency, 1067
—Phytophthora root rot, in Greece, 593N
—Verticillium wilt, in Greece, 593N
Sugar, D., 182
Sugarcane yellow leaf virus
—in Peru, 1342N
—transmission factors, 1085
Sullivar, K. F., 594N
Sumner, D. R., 489N
Sun, P., 1287
Sundararaman, V. P., 1309
Sundsbak, J. L., 475
Sunflower, rust, in South Africa, 924N
Sutton, D. K., 1319
Sutton, T. B., 689, 714, 767
Sutton, W., 773
Suzuki, K., 675
Swart, L., 487N
Swart, W. J., 101N, 592N, 1344N
Sweet potato, chlorotic dwarf disease, etiology in Argentina, 35
Sweetpotato chlorotic stunt virus, whitefly transmission, 1250N
Szabó, I., 1251N

Tainter, F. H., 394
Tang, Q., 341
Taylors, S. E., 192
TeBeest, D. O., 403
Teixeira, D. C., 622
Telecommunication, disease diagnosis, 1256
Teng, P. S., 341, 357
Tetragastric panamensis, Phytophthora and *Pythium* on seedlings, in Panama, 706N
Texas pepper virus, in pepper, Costa Rica, 168
Teyker, R. H., 1104, 1154N
Thanassoulopoulos, C. C., 103N, 371N, 487N
Thielaviopsis basicola, on cotton, early-season effect, 449
Thinopyrum intermedium
—*Bipolaris sorokiniana* and *Fusarium graminearum* on, resistance selection, 1299
Thompson, D. F., 328
Thomson, S. V., 753, 928
Tian, T., 101N
Tian, Z. F., 627
Tiffany, L. H., 596N
Tilletia spp., species differentiation, PCR genomic fingerprinting, 1121
—*T. indica,* on wheat: teliospore detection by sieving, 999; zero-tolerance quarantine, Letter, 711
—*T. maclaganii,* on switchgrass, outbreak in Iowa, 596N
Timmer, L. W., 157, 638, 1246, 1294
Tipping, P. W., 1344N
Tisserat, N. A., 268
Tobacco
—collar rot, greenhouse factors, 1076
—Pythium root rot, nutrient solution temperature effect, 289
—*Xylella fastidiosa,* experimental host, 827
Tobacco mosaic virus, on tobacco, outbreak in Georgia, 201N, 1047N
Tobacco rattle virus, new hosts in USA, 1344N
Tobacco streak virus, on strawberry, in eastern USA, 488N
Tobacco vein banding mosaic virus, on *Datura* and tobacco in China, 1152N
Todd, T. C., 77
Tomaso-Peterson, M., 921N, 1151N
Tomato
—anthracnose: cover photo, November; first report in Argentina, 198N
—bacterial speck, race 1, in California, 371N
—begomovirus, new in Barbados, 1342N
—early blight, resistance in germ plasm, 967
—fruit rot, outbreak in California, 594N
—*Fusarium oxysporum* race 3, in Florida, 199N
—geminiviruses, in Nicaragua, 843
—*Pelargonium zonate spot virus,* in Spain, 807N
—*Pepino mosaic virus,* first report in Netherlands, 103N
—*Phytophthora infestans,* population stability in Ecuador, 325
—postharvest decay, hydrocooling effect, 1314
—wetness sensor performance, factors during dew periods, 192
Tomato chlorosis virus, outbreak in Spain, 835
Tomato curly stunt virus, on tomato, *Tomato yellow leaf curl virus* association, South Africa, 810N
Tomato leaf curl virus
—on cantaloupe and gourd, from Thailand, 200N
—on muskmelon, from Thailand, 707N
—watermelon leaf curl association in Pakistan, 102N
Tomato mottle virus, rhizobacterial mediated protection, 779
Tomato spotted wilt virus
—on *Agapanthus praecox,* in Australia, 491N
—management tactics, 847
—on *Melampodium divaricatum,* first report, 1152N
—new hosts, Mediterranean region, 489N
—on peanut, thrip relation, in North Carolina, 459
—in pepper, in Florida, 1154N
—on *Pittosporum tobira,* new host, 491N
—on tomatillo, in Georgia, 1155N
Tomato yellow leaf curl virus
—identification in The Bahamas, 592N
—in the Canary Islands, 1046N

—outbreak in Georgia, 370N
—spread from Mediterranean Basin to Canary Islands and Morocco, 490N
Toussaint, V., 295
Townsend, A. M., 1266
Traoré, A., 1203
Trapero-Casas, A., 488N
Trevathan, L. E., 921N, 1151N
Trevors, C. M., 443
Trichoderma spp.
—*T. harzianum,* biocontrol agent, perceptions, 377
—*T. virens,* biocontrol agent, vinca damping-off, 644
Trifolium spp., phytoplasma, in Lithuania, 1061
Tsagris, M., 1345N
Tsahouridou, P. C., 371N, 487N
Tsuyumu, S., 15
Tulip, breaking, potyvirus cause, cover photo, October
Tulip breaking virus, history, 1052
Turf, sting nematode, population dynamics, 1081
Turini, T., 488N
Tylka, G. L., 77
Tzortzakaki, S., 1345N

Ullian, B., 4
Ulmus spp., Eurasian cultivars, North American elm yellows phytoplasma, 1266
Ureña de Chapet, O., 706N
Urs, R. R., 185
Uredo cajani, on pigeonpea, first report in South Africa, 1344N
Ustilaginoidea virens, on rice, outbreak in Louisiana, 100N
Ustilago spp.
—*U. maydis,* on corn, cover photo, February

Vaira, A. M., 1046N, 1156N
Vajna, L., 372N, 489N
Valenzuela-Vázquez, M., 487N
Valkonen, J. P. T., 843
Valverde, R. A., 168, 1152N, 1250N
Van Arsdel, E. P., 594N
van der Vlugt, R. A. A., 103N, 202N
van Vuuren, S. P., 239
van Wyk, P. S., 924N
Vargas, J. M., Jr., 19
Varma, A., 1155N
Vaughn, K. M., 25
Vecchiati, M., 1046N
Vega O., S., 102N
Vega-Sánchez, M. E., 325
Vegetti, A. C., 794
Venturia spp.
—*V. inaequalis,* on apple: fungicide control, 863; leaf little shredding and treatment with urea, 1319; research in France, 928
—*V. pirina,* on pear, ascospore maturity model, dose, 681
Verbena, web blight, *Rhizoctonia* cause, 492N
Verhoeven, J. Th. J., 103N
Vernia, C. S., 489N
Verreet, J. A., 816
Verticillium dahliae
—on eggplant: in Korea, 1152N; plastic mulch and nitrogen effect, 1231
—on horseradish, inoculum density effect, 309
—on mint, resistance, 235
—on potato: early dying, vegetative compatibility groups, 1241; quadrat size and time of year, lesion nematodes, 961
—on *Solanum* spp., in Mexico, 808N
—solarization for control, Oregon, 952
—on stevia, in North America, 922N
—on sugar beet, in Greece, 593N
Vicent, A., 1044N
Vicente, M., 1156N
Vicia faba
—bean blight in Syria, 1044N
—*Faba bean necrotic yellow virus,* in Spain, 707N
Vigna unguiculata, Pythium ultimum, in South Africa, 922N
Vigneault, C., 1314
Vilardell, P., 631
Vilchez, M., 811N
Viruses, tobamoviruses, in *Dieffenbachia* and *Impatiens,* first report, 707N
Vodkin, L. O., 1309
Voegtlin, D. J., 1221
Vogler, D., 594N

Wagoire, W. W., 203N
Walcott, R. R., 372N, 470
Waliyar, F., 1203
Walker, N. R., 449
Walla, J. A., 268, 1235
Wang, B., 980
Wang, J., 77
Wardlaw, T., 510
Warren, G. R., 202N
Watermelon
—bacterial fruit blotch, seed detection, 470
—gummy stem blight, fungicide schedules, 254
—*Tomato leaf curl virus,* in Pakistan, 102N
Watson, W. T., 539
Weeks, C., 372N
Weidemann, K., 143
Weiland, J. J., 475
Weinzierl, R. A., 1104, 1221
Welliver, R, 202N
Wheat
—black point, irrigation effect in Saskatchewan, 892
—common root rot, drought tolerance, 25
—eyespot and stripe rust, resistance of alien species, 40
—Fusarium head blight: cover photo, January; fungicides for, 1021; histopathological spikelet changes, 794; previous crop residues and tillage effects, 71
—IPM model, regional monitoring, 816
—Karnal bunt: teliospore detection by sieving, 999; zero-tolerance quarantine, Letter, 711
—leaf rust: resistance in cultivar Toropi, Brazil, 90; virulence in USA from 1996 to 1998, 1334
—*Soilborne wheat mosaic virus,* in Africa, 921N
—Stagonospora nodorum blotch, seed infection, 749
—stem rust, gene *Sr31* detection, 203N
Wheat dwarf virus, on cereals in Tunisia, 1045N
Wheat spindle streak mosaic virus, in Africa, 921N
Wheat yellow mosaic virus, on wheat, in China, 627
Wheeler, T. A., 77, 961
White clover, phytoplasma mixture, cover photo, October
White, G. P., 1121
Whitlow, T. H., 725, 1266
Wichman, R. L., 198N
Wichman, T. A., 198N
Widick, J. D., 669
Widmer, T. L., 562
Wijesundera, R. L. C., 202N
Wilcox, W. F., 275, 863
Wilkinson, H. T., 947, 1151N
Williamson, M. R., 593N
Williamson, S. M., 714
Willocquet, L., 341, 357
Wilson, A. J., 491N
Wilson, C. L., 243, 249
Wilson, C. R., 491N, 513
Wilson, D. M., 148
Wilson, J. P., 201N
Wilson, L. L., 549
Wingfield, B. D., 151
Wingfield, M. J., 139, 151
Winton, L., 773
Wise, R. P., 1160
Wisler, G. C., 803
Wisniewski, M., 243, 249
Wolcan, S., 706N, 1044N
Wong, E., 1121
Wong, F. P., 275
Workneh, F., 83
Wright, E. R., 100N, 370N, 1345N
Wysong, D. S., 77

Xanthomonas spp.
—*X. axonopodis,* on anthurium, in Reunion Island, 1343N
—*X. campestris:* on crucifers, leaf spot in Oklahoma, 1008; on lettuce, seed treatments and cultivars, 295; on lettuce, in Turkey, 490N; on onion, in Colorado, 922N; on onion, first report in Continental USA, 201N; on spinach, cover photo, September
—*X. oryzae,* on rice, origin in India, 465
Xia, J. Q., 877
Xiao, C. L., 531, 743, 1197
Xie, L., 937
Xie, W., 654
Xing, Y. M., 627
Xylella fastidiosa
—on citrus, transmission by root graft, 622
—on *Nicotiana tabacum,* experimental host, 827
—on oleander, Florida, 198N
—on pecan, leaf scorch, 1282

Yaege, J. R., 521
Yam mild mosaic virus, on *Dioscorea alata,* in Martinique, 200N
Yang, X. B., 83, 94, 1287
Yang, Y.-K., 55
Yashitola, J., 465
Yildirim, A., 40
Yoder, K. S., 1171
Young, E., 767
Yu, J. L., 627
Yuan, Z. Q., 510
Yuki, V. A., 516

Zafar, Y., 101N, 102N, 809N
Zea mays, Stewart's wilt, international collection of germ plasm, 901
Zehnder, G. W., 779
Zeidan, M., 201N, 1185
Zeigler, R. S., 60
Zembo, J. C., 595N
Zhang, B. Q., 94
Zhang, Y., 885
Zhao, Y., 1008, 1015
Zhu, D., 341
Zhu, K., 627
Zitko, S. E., 157, 638
Zoysia japonica
—*Curvularia inaequalis,* pyrenocine and pathogenicity, 684
—take-all, in Texas, 1151N
Zriba, N., 192, 725
Zucchini yellow mosaic virus, in Argentina, 371N